Name of Work: Improvements and Ashalting to Babanna layout New vegetable Market Surrounding area roads in ward No 12, Shettyhalli Sub Division

Detailed Measurements

Date of Measurements

Item No	Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm							
	CC Drain Raft							
	Chikkasandra Main Road 4th Cross							
	4th Cross							
	Ch:0.00m to 240.00m	LHS	1	30.00	0.90	0.15	4.05	
		LHS	1	30.00	0.90	0.15	4.05	
		LHS	1	9.20	0.90	0.15	1.24	
		LHS	1	26.00	0.90	0.15	3.51	
		LHS	1	26.00	0.90	0.15	3.51	
		LHS	1	6.20	0.90	0.15	0.84	
		LHS	1	30.00	0.90	0.15	4.05	
		LHS	1	4.20	0.90	0.15	0.57	
	Culvert	LHS	1	5.20	0.90	0.15	0.70	
		LHS	1	20.40	0.90	0.15	2.75	
		LHS	1	21.50	0.90	0.15	2.90	
		LHS	1	27.00	0.90	0.15	3.65	
		LHS	1	26.40	0.90	0.15	3.56	
		RHS	1	30.00	0.90	0.15	4.05	
		RHS	1	30.00	0.90	0.15	4.05	
		RHS	1	30.00	0.90	0.15	4.05	
		RHS	1	16.00	0.90	0.15	2.16	
	Chikkasandra Main Road							
		Culver	1	5.20	0.90	0.15	0.70	
	3rd Cross Road(LHS from main Road)							
	Ch:0.00m to 62.00m	LHS	1	30.00	0.90	0.15	4.05	
		LHS	1	30.00	0.90	0.15	4.05	
		LHS	1	1.00	0.90	0.15	0.14	
		RHS	1	30.00	0.90	0.15	4.05	
		RHS	1	30.00	0.90	0.15	4.05	
		RHS	1	5.00	0.90	0.15	0.68	
	3rd Cross Road (RHS from main Road)							
	Ch:0.00m to 37.60m	LHS	1	30.00	0.90	0.15	4.05	
		LHS	1	7.60	0.90	0.15	1.03	
		RHS	1	30.00	0.90	0.15	4.05	

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Item No	Discription of Item	Side	No	Length	A. Breadth	A Depth	Qty	Unit
	Total Drain length=107.00m							
	Main bar 12mm dia bar @ 125mm C/c							
	0.89kg/mtr							
	Distribution bar 10mm dia 150mm C/c							
	0.61kg/mtr							
	No of U Bar=856		856	2.10		0.89	1599.86	
	Distribution bar		11	107.00		0.61	717.97	
	RHS							
	Total Drain length=107.00m							
	No of U bar =856		856	2.10		0.89	1599.86	
	Distribution bar		11	107.00		0.61	717.97	
	Cross Road-1 from 2nd Main	**LHS**						
	Total Drain length=63.50m							
	Main bar 12mm dia bar @ 125mm C/c							
	0.89kg/mtr							
	Distribution bar 10mm dia 150mm C/c							
	0.61kg/mtr							
	No of U Bar=508		508	2.10		0.89	949.45	
	Distribution bar		11	63.50		0.61	426.09	
	RHS							
	Total Drain length=20.00m							
	No of U bar =160		160	2.10		0.89	299.04	
	Distribution bar		11	107.00		0.61	717.97	
							35528.14	**Kg**
						Present Qty	**35.53**	**Tn**
						Present Qty	**35.33**	**Tn**

CIVIL TECH LABS BANGALORE

Assistant Engineer
Ward No-12
BBMP Bangalore

Asst. Executive Engineer,
Shettyhalli Sub division
BBMP Bangalore

Name of Work: Improvements and Ashalting to Babanna layout New vegetable Market Surrounding area roads in ward No 12, Shettyhalli Sub Division

Detailed Measurements

Date of Measurements

Item No	Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
9	**Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per							
	Babanna Layout (Widening)							
	Chikkasandra Main Road 4th Cross							
	Ch:0.00m to 2.00m	LHS	1	2.00	(1.40 + 1.50)/2	0.375	1.09	
	Ch:2.00m to 32.00m	LHS	1	30.00	(6.80 + 1.50)/2	0.375	46.69	
	Ch:32.00m to 62.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.375	16.88	
	Ch:62.00m to 92.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.375	16.88	
	Ch:92.00m to122.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.375	16.88	
	Ch:122.00m to 124.30m	LHS	1	2.30	(1.50 + 1.40)/2	0.375	1.25	
	Ch:124.3m to 154.30m	LHS	1	30.00	(1.40 + 1.30)/2	0.375	15.19	
	Ch:154.30m to 184.30m	LHS	1	30.00	(1.30 + 1.40)/2	0.375	15.19	
	Ch:184.30m to214.30m	LHS	1	30.00	(1.40 + 1.30)/2	0.375	15.19	
	Ch:214.30m to239.60m	LHS	1	25.30	(1.30 + 1.50)/2	0.375	13.28	
	Ch:0.00m to 2.00m	RHS	1	2.00	(1.40 + 1.50)/2	0.375	1.09	
	Ch:2.00m to 32.00m	RHS	1	30.00	(6.80 + 1.50)/2	0.375	46.69	
	Ch:32.00m to 62.00m	RHS	1	30.00	(1.50 + 1.60)/2	0.375	17.44	
	Ch:62.00m to 92.00m	RHS	1	30.00	(1.60 + 1.30)/2	0.375	16.31	
	Ch:92.00m to122.00m	RHS	1	30.00	(1.30 + 1.50)/2	0.375	15.75	
	Ch:122.00m to 124.30m	RHS	1	2.30	(1.50 + 1.30)/2	0.375	1.21	
	Ch:124.3m to 154.30m	RHS	1	30.00	(1.30 + 1.20)/2	0.375	14.06	

Name of Work: Improvements and Ashalting to Babanna layout New vegetable Market Surrounding area roads in ward No 12, Shettyhalli Sub Division

Detailed Measurements

Date of Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
12	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications							
	Babanna Layout (Widening)							
	Chikkasandra Main Road 4th Cross							
	Ch:0.00m to 2.00m	LHS	1	2.00	(1.40 + 1.50)/2	0.225	0.65	
	Ch:2.00m to 32.00m	LHS	1	30.00	(6.80 + 1.50)/2	0.225	28.01	
	Ch:32.00m to 62.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.225	10.13	
	Ch:62.00m to 92.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.225	10.13	
	Ch:92.00m to122.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.225	10.13	
	Ch:122.00m to 124.30m	LHS	1	2.30	(1.50 + 1.40)/2	0.225	0.75	
	Ch:124.3m to 154.30m	LHS	1	30.00	(1.40 + 1.30)/2	0.225	9.11	
	Ch:154.30m to 184.30m	LHS	1	30.00	(1.30 + 1.40)/2	0.225	9.11	
	Ch:184.30m to214.30m	LHS	1	30.00	(1.40 + 1.30)/2	0.225	9.11	
	Ch:214.30m to239.60m	LHS	1	25.30	(1.30 + 1.50)/2	0.225	7.97	
	Ch:0.00m to 2.00m	RHS	1	2.00	(1.40 + 1.50)/2	0.225	0.65	
	Ch:2.00m to 32.00m	RHS	1	30.00	(6.80 + 1.50)/2	0.225	28.01	
	Ch:32.00m to 62.00m	RHS	1	30.00	(1.50 + 1.60)/2	0.225	10.46	
	Ch:62.00m to 92.00m	RHS	1	30.00	(1.60 + 1.30)/2	0.225	9.79	
	Ch:92.00m to122.00m	RHS	1	30.00	(1.30 + 1.50)/2	0.225	9.45	
	Ch:122.00m to 124.30m	RHS	1	2.30	(1.50 + 1.30)/2	0.225	0.72	

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Ch:154.30m to 184.30m	RHS	1	30.00	(1.20 + 1.50) / 2		40.50	
	Ch:184.30m to214.30m	RHS	1	30.00	(1.50 + 1.30) / 2		42.00	
	Ch:214.30m to239.60m	RHS	1	25.30	(1.30 + 1.60) / 2		36.69	
	3rd Cross Road (LHS from 4th Crs)							
	Ch:0.00m to 30.00m	LHS	1	30.00	(1.00 + 0.90) / 2		28.50	
	Ch:30.00m to 60.00m	LHS	1	30.00	(0.90 + 0.90) / 2		27.00	
	Ch:60.00m to 62.00m	LHS	1	2.00	(0.90 + 0.75) / 2		1.65	
	Ch:0.00m to 30.00m	RHS	1	30.00	(0.90 + 0.80) / 2		25.50	
	Ch:30.00m to 60.00m	RHS	1	30.00	(0.80 + 0.90) / 2		25.50	
	Ch:60.00m to 62.00m	RHS	1	2.00	(0.90 + 0.90) / 2		1.80	
	3rd Cross Road (RHS from 4th Crs)							
	Ch:0.00m to 30.00m	LHS	1	30.00	(0.75 + 0.70) / 2		21.75	
	Ch:30.00m to 37.60m	LHS	1	7.60	(0.70 + 0.75) / 2		5.51	
	Ch:0.00m to 30.00m	RHS	1	30.00	(0.80 + 0.60) / 2		21.00	
	Ch:30.00m to 37.60m	RHS	1	7.60	(0.60 + 0.60) / 2		4.56	
	4th cross road(LHS from from 4th Crs)							
	Ch:0.00m to 30.00m	LHS	1	30.00	(0.80 + 1.20) / 2		30.00	
	Ch:30.00m to 60.00m	LHS	1	30.00	(1.20 + 1.10) / 2		34.50	
	Ch:60.00m to 64.00m	LHS	1	4.00	(1.10 + 0.75) / 2		3.70	
	Ch:0.00m to 30.00m	RHS	1	30.00	(1.00 + 0.90) / 2		28.50	
	Ch:30.00m to 60.00m	RHS	1	30.00	(1.10 + 0.90) / 2		30.00	
	Ch:60.00m to 64.00m	RHS	1	4.00	(0.90 + 0.90) / 2		3.60	
	4th cross road(RHS from 4th Crs)							
	Ch:0.00m to 10.30m		1	10.30	(4.70 + 4.65) / 2		48.15	

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ಪೀಣ್ಯ ಉಪವಿಭಾಗ, ಹೊಸದಾಸರಹಳ್ಳಿ ಬೆಂಗಳೂರು
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Name of Work: Improvements and Ashalting to Babanna layout New vegetable Market Surrounding area roads in ward No 12, Shettyhalli Sub Division

Detailed Measurements

Date of Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
15	Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen							
	Babanna Layout (Widening)							
	Chikkasandra Main Road 4th Cross							
	Ch:0.00m to 2.00m	LHS	1	2.00	(1.40 + 1.50)/2	0.05	0.15	
	Ch:2.00m to 32.00m	LHS	1	30.00	(6.80 + 1.50)/2	0.05	6.23	
	Ch:32.00m to 62.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.05	2.25	
	Ch:62.00m to 92.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.05	2.25	
	Ch:92.00m to122.00m	LHS	1	30.00	(1.50 + 1.50)/2	0.05	2.25	
	Ch:122.00m to 124.30m	LHS	1	2.30	(1.50 + 1.40)/2	0.05	0.17	
	Ch:124.3m to 154.30m	LHS	1	30.00	(1.40 + 1.30)/2	0.05	2.03	
	Ch:154.30m to 184.30m	LHS	1	30.00	(1.30 + 1.40)/2	0.05	2.03	
	Ch:184.30m to214.30m	LHS	1	30.00	(1.40 + 1.30)/2	0.05	2.03	
	Ch:214.30m to239.60m	LHS	1	25.30	(1.30 + 1.50)/2	0.05	1.77	
	Ch:0.00m to 2.00m	RHS	1	2.00	(1.40 + 1.50)/2	0.05	0.15	
	Ch:2.00m to 32.00m	RHS	1	30.00	(6.80 + 1.50)/2	0.05	6.23	
	Ch:32.00m to 62.00m	RHS	1	30.00	(1.50 + 1.60)/2	0.05	2.33	
	Ch:62.00m to 92.00m	RHS	1	30.00	(1.60 + 1.30)/2	0.05	2.18	
	Ch:92.00m to122.00m	RHS	1	30.00	(1.30 + 1.50)/2	0.05	2.10	